

# Log Puzzle

There are four snakes hiding in the log dominoes! Can you connect them? Part of the puzzle is to figure out where the snakes begin and end. Snakes are sneaky so watch out!

1. The two halves of each domino will usually not match.
2. Two domino halves can join if their touching parts simplify to the same value.
3. Every domino will be used when the puzzle is solved. Color in your snakes and win!

$\log_2(-4)$	-2	$\log_2\left(\frac{1}{8}\right)$	-3	$\log_{\frac{1}{3}}(-1)$	$\emptyset$	$\log_{\frac{1}{3}}243$	-5
2	$\log_5 4$	3	$\log_5 8$	3	$\log_2 32$	5	$\log_{\sqrt{2}} 4$
$\log_2 4$	2	$\log 100$	-3	$\log_{\frac{1}{2}} 2$	-1	$\log_2 16$	4
-1	$\log_2 \frac{1}{2}$	0	$\log_{\frac{1}{10}} 1$	2	$\log_{\frac{1}{3}}\left(\frac{1}{3}\right)$	4	$\log_5 4$
$\log_{\sqrt{2}} \frac{1}{2}$	-2	$\log_{\sqrt{2}}\left(\frac{1}{2}\right)$	-2	$\log_6 1$	1	$\log 10$	-2
-3	$\log_{1/3} 27$	3	$\log_{\sqrt{8}} 2$	$-\frac{2}{3}$	$\log_8\left(\frac{1}{4}\right)$	1	$\log_{\frac{1}{2}} 2$
$\log 1000$	3	$\log_2 8$	$\frac{3}{2}$	$\log_4 8$	$-\frac{3}{2}$	$\log_8 2$	-1
$\emptyset$	$\log_4 0$	$\frac{2}{3}$	$\log_8 4$	$-\frac{2}{3}$	$\log_4\left(\frac{1}{8}\right)$	$\frac{1}{3}$	$\log_8\left(\frac{1}{2}\right)$

# Log Puzzle

There are four snakes hiding in the log dominoes! Can you connect them? The heads and tails of the snakes have been marked with circles. Snakes are sneaky so watch out!

1. The two halves of each domino will usually not match.
2. Two domino halves can join if their touching parts simplify to the same value.
3. Every domino will be used when the puzzle is solved. Color in your snakes and win!

○	-2	$\log_2\left(\frac{1}{8}\right)$	-3	$\log_{\frac{1}{3}}(-1)$	∅	$\log_{\frac{1}{3}}243$	-5
2	$\log_5 4$	○	$\log_5 8$	○	$\log_2 32$	5	$\log_{\sqrt{2}} 4$
$\log_2 4$	2	$\log 100$	-3	$\log_{\frac{1}{2}} 2$	-1	$\log_2 16$	4
-1	$\log_2 \frac{1}{2}$	0	$\log_{\frac{1}{10}} 1$	○	$\log_{\frac{1}{3}}\left(\frac{1}{3}\right)$	4	$\log_5 4$
$\log_{\sqrt{2}} \frac{1}{2}$	-2	$\log_{\sqrt{2}}\left(\frac{1}{2}\right)$	-2	○	1	$\log 10$	-2
-3	$\log_{1/3} 27$	3	○	$-\frac{2}{3}$	$\log_8\left(\frac{1}{4}\right)$	1	$\log_{\frac{1}{2}} 2$
$\log 1000$	3	$\log_2 8$	$\frac{3}{2}$	$\log_4 8$	$-\frac{3}{2}$	$\log_8 2$	-1
∅	$\log_4 0$	$\frac{2}{3}$	$\log_8 4$	○	$\log_4\left(\frac{1}{8}\right)$	$\frac{1}{3}$	○